

1 **ABSTRACT**

2 A flash driver tracks data stored in a flash memory device through the use
3 of logical-to-physical sector mapping. The mapping is stored in a data structure
4 and allows data to be written into the next free physical sector in the flash memory
5 medium. Write operations complete quickly, because there is no need to perform
6 an erase operation in order to write new data on to the flash memory medium.
7 Data loss due to power interruption during a write operation is also minimized by
8 the described implementations. The logical-to-physical sector mapping stored in
9 data structure is backed-up on the flash memory medium. In the event there is a
10 catastrophic power interruption, logical-to-physical sector mapping can easily be
11 reestablished by scanning the backed-up mapping in the flash memory medium.
12 The backed-up information can be stored in a spare portion of a NAND or NOR
13 flash memory medium.
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